

# Telcar® TL-2895E X (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## General Information

### Product Description

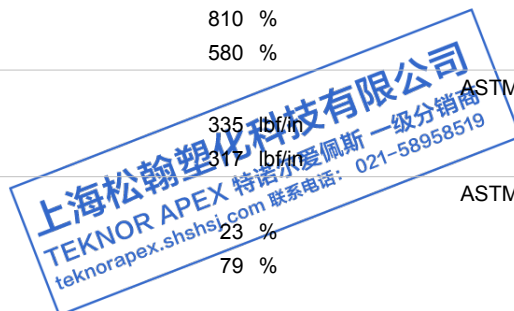
Telcar TL-2895E X is a general purpose thermoplastic elastomer designed for electrical applications requiring flexibility over a wide temperature range. Telcar TL-2895E X is a medium hardness, low density, sunlight resistant grade that is RoHS compliant. This grade is suitable for both injection molding and extrusion.

### General

Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Ablation Resistant • Filled • General Purpose • Halogen Free • High Elasticity	• High Elongation • High Tensile Strength • Light Stabilized • Low Density • Low Flow	• Low Specific Gravity • Medium Hardness • Sunlight Resistant • UV Absorbing
Uses	• Appliance Wire Insulation • Appliance Wire Jacketing • Cable Jacketing • Connectors	• Flexible Cord Jacketing • Industrial Cable Insulation • Terminal Cable Jacketing • Underground Power Cable	• Wire & Cable Applications • Wire Jacketing
RoHS Compliance	• RoHS Compliant		
Appearance	• Opaque		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.5	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 100% Strain	592	psi	
Flow : 100% Strain	843	psi	
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 300% Strain	753	psi	
Flow : 300% Strain	1040	psi	
Tensile Strength <sup>2</sup>			ASTM D412
Across Flow : Break	2630	psi	
Flow : Break	1470	psi	
Tensile Elongation <sup>2</sup>			ASTM D412
Across Flow : Break	810	%	
Flow : Break	580	%	
Tear Strength <sup>2</sup>			ASTM D624
Across Flow	335	lb/in	
Flow	317	lb/in	
Compression Set <sup>3</sup>			ASTM D395B
73°F, 22 hr	23	%	
158°F, 22 hr	79	%	



Revision Date: 2/21/2017

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec	85		
Shore A, 5 sec	80		

### Legal Statement

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### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 420	°F
Middle Temperature	415 to 430	°F
Front Temperature	430 to 440	°F
Nozzle Temperature	430 to 445	°F
Processing (Melt) Temp	430 to 445	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

### Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	380 to 410	°F
Cylinder Zone 2 Temp.	390 to 420	°F
Cylinder Zone 3 Temp.	415 to 430	°F
Cylinder Zone 5 Temp.	430 to 440	°F
Die Temperature	430 to 445	°F

### Extrusion Notes

Screw Speed: 30 to 100 rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C, 20 in/min

<sup>3</sup> Type 1

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